



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/616,410

DATE: 10/08/2004

TIME: 15:34:17

Input Set : A:\66671-043.TXT

Output Set: N:\CRF4\10082004\J616410.raw

4 <110> APPLICANT: Hunter, Tony  
 5 Kun Ping, Lu  
 7 <120> TITLE OF INVENTION: NIMA INTERACTING PROTEINS  
 10 <130> FILE REFERENCE: 66671-043  
 12 <140> CURRENT APPLICATION NUMBER: US 10/616,410  
 13 <141> CURRENT FILING DATE: 2003-07-08  
 15 <150> PRIOR APPLICATION NUMBER: US 09/275,900  
 16 <151> PRIOR FILING DATE: 1999-03-24  
 18 <160> NUMBER OF SEQ ID NOS: 22  
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 1014  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: CDS  
 29 <222> LOCATION: (25)...(513)  
 31 <400> SEQUENCE: 1  
 32 tgctggccag cacctcgagg gaag atg gcg gac gag gag aag ctg ccg ccc 51  
 33 Met Ala Asp Glu Glu Lys Leu Pro Pro  
 34 1 5  
 36 ggc tgg gag aag cgc atg agc cgc agc tca ggc cga gtg tac tac ttc 99  
 37 Gly Trp Glu Lys Arg Met Ser Arg Ser Ser Gly Arg Val Tyr Tyr Phe  
 38 10 15 20 25  
 40 aac cac atc act aac gcc agc cag tgg gag cgg ccc agc ggc aac agc 147  
 41 Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg Pro Ser Gly Asn Ser  
 42 30 35 40  
 44 agc agt ggt ggc aaa aac ggg cag ggg gag cct gcc agg gtc cgc tgc 195  
 45 Ser Ser Gly Gly Lys Asn Gly Gln Gly Glu Pro Ala Arg Val Arg Cys  
 46 45 50 55  
 48 tcg cac ctg ctg gtg aag cac agc cag tca cgg cgg ccc tcg tcc tgg 243  
 49 Ser His Leu Val Lys His Ser Gln Ser Arg Arg Pro Ser Ser Trp  
 50 60 65 70  
 52 cgg cag gag aag atc acc cgg acc aag gag gag gcc ctg gag ctg atc 291  
 53 Arg Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile  
 54 75 80 85  
 56 aac ggc tac atc cag aag atc aag tcg gga gag gag gac ttt gag tct 339  
 57 Asn Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser  
 58 90 95 100 105  
 60 ctg gcc tca cag ttc agc gac tgc agc tca gcc aag gcc agg gga gac 387  
 61 Leu Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp  
 62 110 115 120  
 64 ctg ggt gcc ttc agc aga ggt cag atg cag aag cca ttt gaa gac gcc 435

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```

65 Leu Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala
66          125          130          135
68 tcg ttt gcg ctg cgg acg ggg gag atg agc ggg ccc gtg ttc acg gat 483
69 Ser Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp
70          140          145          150
72 tcc ggc atc cac atc atc ctc cgc act gag tgagggtggg gagcccaggc 533
73 Ser Gly Ile His Ile Ile Leu Arg Thr Glu
74          155          160
76 ctggcctcgg ggcagggcag ggcggctagg cgggccagct cccccttgcc cgccagccag 593
77 tggccgaacc cccactccc tgccaccgtc acacagtatt tattgttccc acaatggctg 653
78 ggagggggcc cttccagatt gggggccctg ggggtcccccac tccctgtcca tccccagttg 713
79 gggctgcgac cgccagattc tcccttaagg aattgacttc agcaggggtg ggaggtctcc 773
80 agaccagggc cagtgtgggtg ggaggggtgt tccaaagaga aggcctgggtc agcagagccg 833
81 ccccggtgtc cccaggtgc tggaggcaga ctcgagggcc gaattgtttc tagttaggcc 893
82 acgctcctct gttcagtcgc aaaggtgaac actcatgcgg cagccatggg ccctctgagc 953
83 aactgtgcag accctttcac cccaattaa acccagaacc actaaaaaaaa aaaaaaaaaa 1013
84 a 1014

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86 &lt;210&gt; SEQ ID NO: 2

87 &lt;211&gt; LENGTH: 163

88 &lt;212&gt; TYPE: PRT

89 &lt;213&gt; ORGANISM: Homo sapiens

91 &lt;400&gt; SEQUENCE: 2

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92 Met Ala Asp Glu Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser
93 1          5          10          15
94 Arg Ser Ser Gly Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser
95          20          25          30
96 Gln Trp Glu Arg Pro Ser Gly Asn Ser Ser Ser Gly Gly Lys Asn Gly
97          35          40          45
98 Gln Gly Glu Pro Ala Arg Val Arg Cys Ser His Leu Leu Val Lys His
99          50          55          60
100 Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg Gln Glu Lys Ile Thr Arg
101 65          70          75          80
102 Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn Gly Tyr Ile Gln Lys Ile
103          85          90          95
104 Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu Ala Ser Gln Phe Ser Asp
105          100          105          110
106 Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu Gly Ala Phe Ser Arg Gly
107          115          120          125
108 Gln Met Gln Lys Pro Phe Glu Asp Ala Ser Phe Ala Leu Arg Thr Gly
109          130          135          140
110 Glu Met Ser Gly Pro Val Phe Thr Asp Ser Gly Ile His Ile Ile Leu
111 145          150          155          160
112 Arg Thr Glu

```

116 &lt;210&gt; SEQ ID NO: 3

117 &lt;211&gt; LENGTH: 31

118 &lt;212&gt; TYPE: DNA

119 &lt;213&gt; ORGANISM: Homo sapiens

121 &lt;400&gt; SEQUENCE: 3

```

122 gcgcctgcag tatctataya tggaataytg t 31

```

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```

124 <210> SEQ ID NO: 4
125 <211> LENGTH: 31
126 <212> TYPE: DNA
127 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 4
130 gcgcggatcc rggtttcaga ggktyraasa g 31
132 <210> SEQ ID NO: 5
133 <211> LENGTH: 30
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 5
138 gcgcgtacca agwccacygt ayattattcc 30
140 <210> SEQ ID NO: 6
141 <211> LENGTH: 13
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: synthetic peptide
148 <400> SEQUENCE: 6
149 Met Tyr Asp Val Pro Asp Tyr Ala Ser Arg Pro Gln Asn
150 1 5 10
153 <210> SEQ ID NO: 7
154 <211> LENGTH: 32
155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: synthetic peptide
161 <400> SEQUENCE: 7
162 Met Ala Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Pro Glu Phe
163 1 5 10 15
164 Leu Val Asp Pro Pro Gly Ser Lys Asn Ser Ile Ala Arg Gly Lys Met
165 20 25 30
168 <210> SEQ ID NO: 8
169 <211> LENGTH: 39
170 <212> TYPE: PRT
171 <213> ORGANISM: Homo sapiens
173 <400> SEQUENCE: 8
174 Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser Arg Ser Ser Gly
175 1 5 10 15
176 Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg
177 20 25 30
178 Pro Ser Gly Asn Ser Ser Ser
179 35
182 <210> SEQ ID NO: 9
183 <211> LENGTH: 39
184 <212> TYPE: PRT
185 <213> ORGANISM: Yeast ESS1
187 <400> SEQUENCE: 9
188 Thr Gly Leu Pro Thr Pro Trp Thr Val Arg Tyr Ser Lys Ser Lys Lys

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```

189 1          5          10          15
190 Arg Glu Tyr Phe Phe Asn Pro Glu Thr Lys His Ser Gln Trp Glu Glu
191          20          25          30
192 Pro Glu Gly Thr Asn Lys Asp
193          35
196 <210> SEQ ID NO: 10
197 <211> LENGTH: 38
198 <212> TYPE: PRT
199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 10
202 Val Pro Leu Pro Ala Gly Trp Glu Met Ala Lys Thr Ser Ser Gly Gln
203 1          5          10          15
204 Arg Tyr Phe Leu Asn His Ile Asp Gln Thr Thr Thr Trp Gln Asp Pro
205          20          25          30
206 Arg Lys Ala Met Leu Ser
207          35
210 <210> SEQ ID NO: 11
211 <211> LENGTH: 38
212 <212> TYPE: PRT
213 <213> ORGANISM: Mus musculus
215 <400> SEQUENCE: 11
216 Ser Pro Leu Pro Pro Gly Trp Glu Glu Arg Gln Asp Val Leu Gly Arg
217 1          5          10          15
218 Thr Tyr Tyr Val Asn His Glu Ser Arg Arg Thr Gln Trp Lys Arg Pro
219          20          25          30
220 Ser Pro Asp Asp Asp Leu
221          35
224 <210> SEQ ID NO: 12
225 <211> LENGTH: 38
226 <212> TYPE: PRT
227 <213> ORGANISM: Yeast RSPS
229 <400> SEQUENCE: 12
230 Gly Arg Leu Pro Pro Gly Trp Glu Arg Arg Thr Asp Asn Phe Gly Arg
231 1          5          10          15
232 Thr Tyr Tyr Val Asp His Asn Thr Arg Thr Thr Thr Trp Lys Arg Pro
233          20          25          30
234 Thr Leu Asp Gln Thr Glu
235          35
238 <210> SEQ ID NO: 13
239 <211> LENGTH: 38
240 <212> TYPE: PRT
241 <213> ORGANISM: Homo sapiens
243 <400> SEQUENCE: 13
244 Thr Ser Val Gln Gly Pro Trp Glu Arg Ala Ile Ser Pro Asn Lys Val
245 1          5          10          15
246 Pro Tyr Tyr Ile Asn His Glu Thr Gln Thr Thr Cys Trp Asp His Pro
247          20          25          30
248 Lys Met Thr Glu Leu Tyr
249          35

```

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```

252 <210> SEQ ID NO: 14
253 <211> LENGTH: 37
254 <212> TYPE: PRT
255 <213> ORGANISM: Rattus rattus
257 <400> SEQUENCE: 14
258 Ser Asp Leu Pro Ala Gly Trp Met Arg Val Gln Asp Thr Ser Gly Thr
259 1 5 10 15
260 Tyr Tyr Trp His Ile Pro Thr Gly Thr Thr Gln Trp Glu Pro Pro Gly
261 20 25 30
262 Arg Ala Ser Pro Ser
263 35
266 <210> SEQ ID NO: 15
267 <211> LENGTH: 14
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: consensus sequence
274 <400> SEQUENCE: 15
275 Leu Pro Gly Trp Glu Gly Tyr Tyr Asn His Thr Thr Trp Pro
276 1 5 10
279 <210> SEQ ID NO: 16
280 <211> LENGTH: 105
281 <212> TYPE: PRT
282 <213> ORGANISM: Homo sapiens
284 <400> SEQUENCE: 16
285 His Leu Leu Val Lys His Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg
286 1 5 10 15
287 Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn
288 20 25 30
289 Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu
290 35 40 45
291 Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu
292 50 55 60
293 Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala Ser
294 65 70 75 80
295 Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp Ser
296 85 90 95
297 Gly Ile His Ile Ile Leu Arg Thr Glu
298 100 105
301 <210> SEQ ID NO: 17
302 <211> LENGTH: 107
303 <212> TYPE: PRT
304 <213> ORGANISM: Yeast ESS1
306 <400> SEQUENCE: 17
307 His Ile Leu Ile Lys His Lys Asp Ser Arg Arg Pro Ala Ser His Arg
308 1 5 10 15
309 Ser Glu Asn Ile Thr Ile Ser Lys Gln Asp Ala Thr Asp Glu Leu Lys
310 20 25 30
311 Thr Leu Ile Thr Arg Leu Asp Asp Asp Ser Lys Thr Asn Ser Phe Glu

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/616,410

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TIME: 15:34:18

Input Set : A:\66671-043.TXT

Output Set: N:\CRF4\10082004\J616410.raw